

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 April 2001 (05.04.2001)

PCT

(10) International Publication Number
WO 01/23411 A2

- (51) International Patent Classification⁷: C07K [US/US]; 31 Mayflower Drive, Wenham, MA 01984 (US).
GARDNER, Andrew, F. [US/US]; 1163 Beacon Street, Apartment #6, Brookline, MA 02446 (US).
- (21) International Application Number: PCT/US00/26900
- (22) International Filing Date: 29 September 2000 (29.09.2000) (74) Agent: WILLIAMS, Gregory, D.; New England Biolabs, Inc., 32 Tozer Road, Beverly, MA 01915 (US).
- (25) Filing Language: English (81) Designated States (*national*): JP, US.
- (26) Publication Language: English (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- (30) Priority Data: 60/157,204 30 September 1999 (30.09.1999) US
- (71) Applicant (*for all designated States except US*): NEW ENGLAND BIOLABS, INC. [US/US]; 32 Tozer Road, Beverly, MA 01915 (US).
- Published:**
— Without international search report and to be republished upon receipt of that report.
- (72) Inventors; and
(75) Inventors/Applicants (*for US only*): JACK, William, E.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 01/23411 A2

(54) Title: INCORPORATION OF MODIFIED NUCLEOTIDES BY ARCHAEON DNA POLYMERASES AND RELATED METHODS

(57) Abstract: The present invention is directed toward improving the efficiency of chain terminator incorporation by Family B archaeon DNA polymerases. Previously, the low efficiency of ddNTP, and more especially dye-labeled ddNTP, incorporation has limited the usefulness of this group of DNA polymerases in protocols requiring chain terminator incorporation.